

EXHIBIT C

DRAFT

ROAD WARRIOR Program Plan

**Initial Efforts to Exploit
COTS Technology for
SMO & SVO**

2/19/2007

Version 02-08-2007

Program Objectives

- The **ROAD WARRIOR** program will develop and field at least three prototype mobile offices for use by traveling business personnel (the "road warrior")
- The mobile offices will be enabled by non-alerting creative combinations and modifications of emerging commercial products, software, and services

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Solution Space

- **SMO – Secure Mobile Office**
 - Laptop PC with typical traveling business applications/data
 - Full disk and file encryption protects all data on PC (Gar114 Approved Encrypt)
 - Encryption application is enhanced to government standards
- **SVO – Secure Virtual Office**
 - Laptop PC with typical personal and/or business applications/data
 - No special applications or data are stored on the PC
 - Special applications & data are stored encrypted on other personal electronic devices (online storage possible)
 - CC personal communication links provided
 - Proprietary communication links available
- **SVO+ – Non-laptop PC based Secure Virtual Office**
 - Hosted on commercial communications, gaming, music and imaging products
 - Online storage of special applications & data

Can also connect
to other
important
functionality

Program Tasks

- **Task 1: Work with the Sponsor to determine requirements and establish product performance specifications**
 - Secure Mobile Office (SMO) & Secure Virtual Office (SVO & SVO+) products in various current configurations with future enhancements
- **Task 2: Acquire commercial technologies & products, assemble prototype and validate performance**
 - Subtask A: SMO and/or SVO Prototypes
 - Perform surveys of applicable commercial technologies and products
 - Purchase commercial technologies identified by the Sponsor
 - Understand and reverse engineer equipment operation (as needed) to enable the addition of special software/firmware to meet the system performance established in Task 1. Assemble operational system prototypes in configurations selected by Sponsor
 - 'Real World' test prototypes and validate operation and performance in meeting security requirements
 - Subtask B: SVO Enhancements
 - Develop and install enhancements to SVO prototypes
 - Subtask C: SVO+ Prototypes
 - Same activities as in Subtask A

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Hardware Modifications

Program Tasks, cont.

- **Task 3: Deliverable prototypes support**
 - Provide operations documentation and define limits of operation within the security profile
 - Suggest techniques to manage and support the field deployment of the initial prototypes
- **Task 4: Provide program management support**
 - Provide secure meeting facilities
 - Provide secure conferencing communications with Sponsor's HQS
 - Query foreign graduate students to identify current local 'cultural norms' for international business people traveling in their home countries

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Level Of Effort

- Overall Program (24 man-months LOE)
 - 1 Full Time Equivalent dedicated to program
 - 1 Full Time Equivalent drawn from a large pool of highly qualifies individuals with special expertise as needed by the program
 - Sponsor will select 3 prototypes from the SMO & SVO options for development
- **Task 1: 2 man-weeks at start of each product development**
- **Task 2: Develop (at least) 3 prototype products each taking a maximum of 6 man-months each to develop and validate - include \$10K for hardware & software**
- **Task 3: 1 man-month per prototype**
- **Task 4: 2 man-weeks**

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SSJ

- Federally Funded Educational Research & Development Organization
 - No interest in production allows follow-on competitive volume production procurement
- Information Technology and Telecommunications Laboratory
 - Classified capability and DoD cleared personnel uniquely qualified for this effort
 - Extensive expertise and knowledge of emerging commercial technologies and their application to military needs & unconventional problems

COTS Survey (Initial Efforts)

- BIOS/computers that permit USB boot
 - Master BIOS Passwords
 - Other BIOS Password by-passing techniques
- Distributed Storage Systems
 - Modified RAID
 - Cleversafe
 - Freenet
- Ultra-Mobile (UMPC) & Tablet PC Products
- Solid State Memory Devices
 - SS Sticks & Cards
 - SS Disks (SSD)
 - Sandisk (up to 32GB)
 - Samsung (up to 64MB) -- PQI (up to 64MB)
 - A-Data (up to 128GB)

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SVO -- Options

- **SVO (All with external boot)**
 - Versions SVO-1xx to 3xx
 - Boot device with OS
 - SVO-1xx Computer-on-a-Stick (COS), SSMemory Cards
 - SVO-2xx CD/DVD RW or Read Only
 - SVO-3xx Swapable SSD
 - Versions SVO-x1x to x3x
 - OS on boot device is:
 - SVO-x1x Linux-OS (secure NSA Linux Kernel optional)
 - SVO-x2x XP-OS
 - SVO-x3x MAC-OS
 - Versions SVO-xx1 to xx3
 - Applications & data treated separately
 - SVO-xx1 applications, data & OS stored on one COS
 - SVO-xx2 applications, data & OS stored encrypted on one or multiple storage devices
 - SVO-xx3 data stored encrypted & distributed online

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SVO Enhancements

- **User friendly interface**
 - Simplified Linux GUI
 - Customer selected, securely compiled applications & short-cuts
- **Automatic Encryption/Decryption**
 - All stored applications & data are encrypted
 - Unencrypted data only exists in RAM
 - Nothing stored on platform storage device
- **User Identification/Verification**
 - Biometrics
 - Tokens
 - Passwords/Unique Actions/Multiple Safeguards
- **Rapid automated data destruction**
 - When SMO & SVO are operating
 - *When SMO & SVO are inactive and boot devices detached*

SVO+

- Alternate Platforms - non-laptop
 - Micro-laptops (UMPC's)
 - Sony VAIO UX180P, Samsung Q1 UMPC
 - Amtek Vistagami UMPC
 - OQO Model O2 • TabletKiosk v-7000 series
 - Internet Tablets
 - Nokia N800,
 - Gaming Stations
 - Xbox • PS-3
 - Smart Cell Phones, PDAs & Cameras
- Unattributable communications services
 - NRL 'Onion'
 - IBM 'Idenix'
 - Psiphon

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SVO+

- recycled television satellites coming to the end of their working lives
 - <http://news.bbc.co.uk/2/hi/technology/6301359.stm>
- Idemix Anonymizer by IBM
 - <http://www.internetnews.com/security/article.php/3656136>

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